

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 86-2

WASTE DISCHARGE REQUIREMENTS
(SITE CLEANUP REQUIREMENTS) FOR:

AVANTEK, INC.
BOWERS AVENUE FACILITY
CITY OF SANTA CLARA
SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Avantek, Inc., hereinafter called the discharger, owns and operates a research, development, and production facility for small microwave electronic products located at 3175 Bowers Avenue in the City of Santa Clara, Santa Clara County, near the intersection with Scott Boulevard approximately 1/2 mile south of Highway 101.
2. Subsurface investigations initiated in November 1983 detected various industrial solvents, including chlorinated hydrocarbons, aromatics, ketones, and alcohols, in both soils and groundwater in the vicinity of an underground waste solvent tank. The pollution appears to be a result of overflows, and/or possible leakage.
3. The discharger has completed additional investigation to delineate the extent of the solvent pollution in the soils and groundwater. As of May 1985, the solvent pollution has been shown to be principally localized in the former tank backfill material and the surrounding native soils and groundwater. Onsite groundwater samples have detected trichloroethene, 1,1,1,-trichloroethane, tetrachloroethene, chlorobenzene, ethyl benzene, methylene chloride, acetone, Freon 113, isopropyl alcohol, and xylenes at concentrations ranging from 1000 to 100,000 parts per billion.
4. The underground waste solvent tank has been removed from service, and an extraction sump has been installed to control and clean up the polluted groundwaters.
5. The Board finds that further remedial action is necessary to prevent the continued migration of pollutants to unaffected groundwaters and to preclude potential loss of beneficial uses of said waters.

6. The Board adopted a revised Water Quality Control Plan (Basin Plan) for the San Francisco Bay Region on July 21, 1982. The Basin Plan contains water quality objectives for groundwater.
7. The existing and potential beneficial uses of the groundwater underlying the facility include:
 - a. Municipal Water Supply
 - b. Domestic Water Supply
 - c. Agricultural Water Supply
 - d. Industrial Service and Process Water Supply
8. This project constitutes a minor modification to land and such activity is thereby exempt from the provisions of the California Environmental Quality Act (CEQA) in accordance with Section 15304 of the Resources Agency Guidelines.
9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and the regulations adopted thereunder, shall comply with the following:

A. Prohibitions

1. The discharge of wastes or hazardous materials in a manner which will degrade water quality or adversely affect beneficial uses of the groundwaters or surface waters of the State is prohibited.
2. Significant further migration of pollutants through subsurface transport to groundwaters or surface waters of the State is prohibited.
3. Activities associated with the subsurface investigation and cleanup which will cause significant further migration of pollutants is prohibited.

B. Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharger shall conduct monitoring activities as needed to define the local hydrogeological conditions, and the lateral and vertical extent of the soil and groundwater pollution in and contiguous to the zone of known pollution. Should monitoring results show evidence of plume migration, additional plume characterization shall be required.

C. Provisions

1. The discharger shall submit to the Board technical reports on self-monitoring work performed according to a program approved by the Executive Officer.
2. In order to comply with Prohibitions A.1, A.2, and A.3, and Specifications B.1 and B.2 above, the discharger shall accomplish the following:

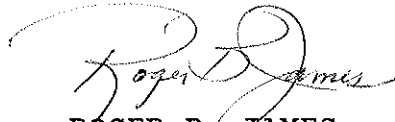
Submit by February 26, 1986 a technical report which evaluates the effectiveness of the onsite groundwater extraction system. Such an evaluation shall include, but need not be limited to , an estimation of the flow capture zone of the extraction well, establishment of the cone of depression by field measurements, and presentation of chemical monitoring data. Recommendations shall be made, and specific modifications shall be proposed for the system as necessary to achieve effective containment and cleanup of the groundwater pollutant plume.

3. The discharger shall submit progress reports every two months beginning on April 1, 1986, to the Regional Board demonstrating compliance with the Prohibitions, Specifications, and Provisions of this Order.
4. Reports submitted pursuant to Specification B.2 and Provisions C.1 and C.2 of this Order shall include, but need not be limited to, groundwater gradient contour maps, pollution concentration contour maps, updated cross-sectional geological maps describing the hydrogeological setting of the site, and appropriately scaled and detailed base maps showing the location of all monitoring and extraction wells, and identifying all adjacent facilities and structures. All hydrogeological plans, specifications, reports, and documents shall be signed and/or stamped with the seal of a registered geologist, engineering geologist, or professional engineer.

5. Failure to submit reports as required by Provisions C.1, C.2, and C.3 of this order may result in appropriate enforcement action. In the event of non-compliance with these Provisions, the discharger shall clarify in writing the reasons for non-compliance and shall propose specific measures and a schedule to achieve compliance.
6. Copies of all correspondence, reports, and documents pertaining to compliance with the Prohibitions, Specifications, and Provisions of this Order, shall be provided to the following agencies:
 - a. Santa Clara Valley Water District
 - b. City of Santa Clara
 - c. Santa Clara County Health Department
 - d. State Department of Health Services/TSCD
7. All samples shall be analyzed by State certified laboratories using approved EPA methods for the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control records for Board review.
8. The discharger shall permit the Board or its authorized representative, in accordance with Section 13267(c) of the California Water Code:
 - a. Entry upon any premises where any pollution source exists, or may potentially exist, or in which any required records are kept.
 - b. Access at reasonable times to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or methods required by this Order.
 - d. Sampling of any groundwater or soil which is accessible, or may become accessible as part of any investigation or remedial action program, to the discharger.
9. The discharger shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed to achieve compliance with the requirements of this Order.

10. The Board will review this Order periodically and may revise the requirements when necessary.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on February 19, 1986.



ROGER B. JAMES
Executive Officer